Organic Analysis Base/Neutral/Acid Extractables Request Sheet

Organic parameters are grouped by methodologies and program lists. The compounds regulated under the Sate Drinking Water Act are listed on a separate request sheet due to the extensive lists and numerous methodologies involved. Use the Other space on the Organics Analysis Request Sheet for parameters not listed.

Routine Semivolatiles, Pesticides, and PCBs

The following groups are compounds typically requested by the water programs and Solid/Hazardous Management. These compounds are found in the National Pollution Discharge Elimination System (NPDES) list and are the extractables that have always been on the request sheets.

- NPDES Extractables
- Pesticides/PCBs

To collect for these extractables:

Water: One 1-gallon amber bottle, EPA certified clean, and teflon-lined cap.

Holding time – 7 days to extract; 40 days to analyze

Sediment: One 16-ounce amber jar, EPA certified clean, and teflon-lined lid.

Holding time - 14 days

TCL (Target Compound List), Semivolatiles, and Pesticides/PCBs

The following groups of compounds are typically requested by the Superfund programs.

- TCL Semivolatiles
- Pesticides/PCBs

To collect for these extractables:

Water: One 1-gallon amber bottle, EPA certified clean, and teflon-lined cap.

Holding time – 7 days to extract; 40 days to analyze

Sediment: One 16-ounce amber jar, EPA certified clean, and teflon-lined lid.

Nitrobodies

These 6 compounds are requested at various Superfund sites where explosives are suspected. To collect for these samples:

Water: Two 1-liter amber bottles, EPA certified clean, and teflon-lined cap.

Toxicity Characteristic Leaching Procedure (TCLP) Extractables

These are the 22 compounds regulated by the toxicity characteristic rule. To request all the organics regulated by the rule you will also need to ask for the TCLP volatiles listed on the Volatiles and Petroleum Hydrocarbon Request Sheet. To collect the TCLP extractables:

Routine soil or sediment sample: One 16-ounce amber jar with teflon-lined lid.

Lightweight sample, such as ash, or sample with a high moisture content: At least two 16-ounce jars are needed. If you have questions about the sample matrix or amounts, call the laboratory to consult about the number to collect or collect extra jars to be sure there is enough sample to perform the test.

LEASE PRINT LEGIBLY		Laboratories			- b	TCLP Semivolatiles	Base/Neutral/Acid Extractables
DO DO ROJE NO	3033000	9DO JECTAMME	0.000		-	chlordane	Laboratory
PROJECT/SITE NO. PROJECT NAME STATION NUMBER COUNTY.						o-cresol	Number
						m-cresol	Branch Lab
DESCRIPTION STREAM MILE DEPTH MATRIX					╟─	p-cresol	Number
COLLECTED: DATE TIME					┢	cresol	Training:
			00,000		╟─	2.4-0	Chain of Custody and Supplemental Informatio
AMPLER'S NAME(printed) AMPLING AGENCY BILLING CODE					 	2.4-dinitrotoluone	
PRIORITY, DATE NEEDED					╟─	endrin	set or point (if all collected at the same time)
			111411		⊩	heptachlor	1. Collected by
END REPORT TO:						heptachlor epoxide	Date Time
ONTACT HAZARD					╟──	hexachlorobenzene	Delivered to
* INPOES Extraotables		NPDES Extractables(con't)			₩	hexachlorobutadiene	Date Time
	4	2-chlorophenol	20,00,00	dimethylphthalate	┢	hexachloroethane	2 Received by
butylbonzylphthalate	-		-	4,6-dinitro-2-methylphenol		lindane	Date Time
bis(2-ethylhexyl)phthalate	₽	2,4-dichlorophenol		2,4-dinitrophenol	!	methoxychlor	Delivered to
di-n-butyiphthalate	+	2,4-dimethylphenol	⊢		├	nitrobenzene	Date Time
di-n-octylphthalate	4	2,4-dinitrophenol	⊢	2,4-dinitrotoluene 2.6 dinitrotolueno		pentachlorophenol	3. Received by
diethylphthalate	₩	4,6-dinitro-o-cresol	┞		1	<u> </u>	Date Time
dimethylphthalate	H	2-nitrophenol	_	fluoranthene	₩	pyridine	
n-nitrosodimethylamine	lacksquare	4-nitrophenol	⊢	fluorene	ļ	toxaphene	Delivered to Time
n-nttrosodiphenylamine		pentachtorophenol	 	hexachlorobenzene		2,4,5-trichlorophenol	Date Time 4. Received in Lab by
n-nitrosodi-n-propylamine		phenol	ļ	hexachlorobutadiene	_	2,4,6-trichterophenol 2.4.5-TP (Silvex)	4. Received in Lab by Date Time
isophorone		2,4,6-trichlorophenol	┖	hexachiorocyclopentadiene		```	
nitrobenzene	00000	TAL Semivolatiles	_	hexachloroethane	H.	Pesticides/PCBs	Logged in by
2,4-dinitrotoluene	Ļ	acenaphthene	_	indeno(1.2.3-cd)pyrene		aldrin	Date Time
acenaphthene		acenaphthylene	_	isophorone	L	alpha-BHC	A -1-14:
acenaphthylene	1	anthracene	_	2 methylnaphthalone		beta BHC	Additional Information
anthracene		benzo(a)anthracene	L	2-methylphenol		delta-BHC	Approximate volume of sample
benzo(a)anthracene		benzo(a)pyrene	<u> </u>	4-methylphenol		gamma-BHC (Ifndane)	
benzo(a)pyrene		benzo(b)fluoranthene		n-nitrosodiphenylamine		technical chlordane	
benzo(b)fluoranthene		benzo(g,h,i)perylene		n-nitroso-n-dipropylamine		alpha-chlordane	2. Nearest town or city
benzo(g,h,i)perylene		benzo(k)fluoranthene		naphthalene		gamma-chlordane	Others present at collection
benzo(k)fluoranthene		benzoic acid		2-nitroaniline	L	4,4 '-DDD	
chrysene		benzyl alcohol		3-nitroaniline	L.	4,4'-DDE	Number of other samples collected at same time at
dibenzo(a,h)anthracene		bis(2-chloroethoxy)methane		4-nitroaniline		4,4'-DDT	this point
fluorentheno		bis(2-chloroethyl) ether		nitrobenzene		d jeldrin	
fluorene		bis(2-chioroisopropyi)ether		2-nitrophenol		endosulfan I	
indeno(1,2,3-c,d)pyrene		bis(2-ethylhexyl)phthalate		4-nitrophenol		endosulfan II	Field collection procedure, handling and/or
naphthalene		4-bromophenylphenylether		pentachlorophonol		endosulfan sulfate	preservation of this sample
phenanthrene		butyibenzyiphthalate		phenanthrene		endrin	
pyrene	T	4-chloroaniline		phenol		endrin aldehyde	
bis(2-chloroethyl)ether	М	4-chloro-3-methyl phenol		ругеле		endrin ketone	6. Mode of transportation to lab
bis(2-ohloroethoxy)methane	П	2-chloronaphthalene		1,2,4-trichlorobenzene		heptachlor	
bis(2-chloroisopropyl)ether	1 1	4-chlorophenylphenylether		2.4.5-trichlorophenol		heptachlor epoxide	
4-bromophenylphenylether	М	chrysene		2,4,6-trichlorophenol		toxaphene	7. Sample sealed by
4-chlorophenylphenylether	_	di-n-butyiphthalate		Nitrobodies		mathoxychlor	8. Date sample sealed
hexachlorocyclopentadiene		di-n-octylphthalate		RDX		PCB 1016/1242	9. Remarks
hexachlorobutadiene	Н	dibenzo(a,h)anthracene	H	2.4.6-TNT		PCB 1221	
hexachlorobenzene	\vdash	dibenzofuran	\vdash	2,4-dinitrotoluene		PCB 1232	
hexachloroethane	 	3,3'-dichlorobenzidine	\vdash	2,6-dinitrotoluene		PCB 1248	
1.2.4-trichloropenzene		2,4-dichlorophenol	\vdash	nitrobenzene		PCB 1254	
2-chloronaphthalene	H	diethylphthalate	\vdash	1,3,5-TNB		PCB 1260	· · · · · · · · · · · · · · · · · · ·
4-chloro-3-methyl phonol		2,4 dimothylphenol		1,0,0 110	-	PCB 1262	

PH-3014 (rev 196) RDA 1527

Organic Analysis Volatiles and Petroleum Hydrocarbons Request Sheet

Organic parameters are grouped by methodologies and program lists. The compounds regulated under the Safe Drinking Water Act are listed on a separate request sheet due to the extensive lists and numerous methodologies involved. Use the Other space for parameters not listed.

National Pollution Discharge Elimination System (NPDES) Volatiles

These compounds are routine volatile parameters and are typically requested by the water programs and Solid/Hazardous Waste Management. These compounds are the volatiles that have always been on the sample request sheet. To collect for these volatiles:

Water: Four 40-ml amber vials, teflon-lined septa caps, no headspace.

Holding time - 14 days.

Sediment: One 4-ounce amber jar, teflon-lined septa cap.

Holding time – 14 days.

TCL (Target Compound List) Volatiles - 8260A

These are the Target Compound List (TCL) volatile parameters. These are the compounds typically requested by the Superfund programs. To collect for these volatiles:

Water: Four 40-ml amber vials, teflon-lined septa caps, no headspace.

Holding time – 14 days.

Low-level sediment: One 4-ounce amber jar, teflon-lined septa cap + 3 EnCore sampling devices. EnCore devices must be received in the Central Laboratory within 24 hours of collection in order to be preserved. Once preserved, the holding time is 14 days.

High-level sediment or waste: One 4-ounce amber jar, teflon-lined septa cap.

Toxicity Characteristic Leaching Procedure (TCLP) Volatiles

These are the 10 compounds regulated by the toxicity characteristic rule. To request all the organics regulated by the rule, you will also need to ask for the TCLP extractables listed on the Base/Neutral/Acid Extractables Request Sheet. To collect the TCLP volatiles:

Routine soil or sediment sample: One 4-ounce amber jar, teflon-lined septa cap.

Lightweight sample, such as ash, or sample with a high moisture content: At least two 16-ounce jars are needed. If you have questions about the sample matrix or amounts, call the laboratory or collect extra jars so we can perform the test.

Petroleum Analyses

The following groups of compounds are typically requested by the Underground Storage Tank Division.

- BTEX 8260A UST are individual compounds found in many petroleum products.
- **TPH by GC** are gas chromatography methods for total petroleum hydrocarbons. These analyses are gasoline range organics **(GRO)** and extractable petroleum hydrocarbons (EPH).

Samples for these procedures are collected as follows;

Water: BTEX and GRO - Five 40-ml amber vials, teflon-lined septa cap, no headspace.

EPH - Two 1-liter amber bottles, acid-preserved.

Note: EPH may be collected in a 1-gallon amber bottle, acid preserved.

Sediment: BTEX and GRO - One 4-ounce amber jar, teflon-lined septa cap.

EPH - One 16-ounce amber jar, teflon-lined cap.

State of Tennessee - Environmental Laboratories



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Organic Analysis

Volatiles and Petroleum Hydrocarbons

ROJECT/SITE NG. TATION NUMBER	PROJECT N COUNTY	AME	Laboratory Number	
	COUNTY		 	
ESCRIPTION			Chain of Custody and Supplemental Information	
TREAM MILE	DEPTH	MATRIX	Only one chain of custody form is required per sample	
OLLECTED: DATE		TIME	set or point (if all collected at the same time)	
AMPLER'S NAME(printed)			1. Collected by	
AMPLING AGENCY	BIL	LING CODE	Date Time	
PRIORITY, DATE NEEDED			Delivered to	
END REPORT TO:			Date Time	
			2. Received by	
ONTACT HAZARD			Date Time	
NPDES Volatiles - 824	* TCL Volatiles - 6260A	1 TCLP Volatiles	Delivered to	
Bromoform	Chloromethane	Benzene	Date Time	
Bromodichloromethane	Bromomethane	Carbon tetrachloride	3. Received by	
Carbon Tetrachloride	Vinyl chloride	Chlorobenzene	Date Time	
Chlorobenzene	Chloroethane	Chloroform	Delivered to	
Chloroethane	Methylene chloride	1.2-Dichloroethane	Date Time	
2-Chloroethylvinyl ether	Acetone	1,1-Dichloroethane	4. Received in Lab by	
Chloroform	Carbon disulfide	Methyl ethyl ketone	Date Time	
Chloromethane	1,1-Dichloroethene	Tetrachloroethene	Logged in by	
Dibromochloromethane	1.1-Dichloroethane	Trichloroethene	Date Time	
1,2-Dichlorobenzene	Cis-1,2-dichioroethene	Vinyl chloride	11119	
1,3-Dichlorobenzene	Trans-1,2-dichloroethene	BIEX B260A USI	Additional Information	
1.4-Dichlorobenzene	1,2-Dichloroethane	Benzene	Approximate volume of sample	
Dichlorodifluoromethane	Chloroform	Toluene	7. Approximate volume of sample	
1.1-Dichloroethane	2-Butanone	Ethyl benzene		
1,2-Dichloroethane	1.1.1-Trichioroethane	o-Xylene	2. Nearest town or city	
1,1-Dichtoroethene	Carbon tetrachloride	m-Xylene	3. Others present at collection	
Cis-1,2-dichloroethene	Vinyl acetate	p-Xylene	o. Obiera preaent at collection	
Trans-1,2-dichloroethene	Bromodichloromethane	Methyl t-butyl ether	4. Number of other samples collected at same time at	
1,2-Dichloropropane	1,2-Dichloropropane	Diisopropyl ether	this point	
Cis-1,3-dichloropropene	Cis-1,3-dichloropropene	* TPH by &C	and point	
Trans-1,2-dichloroethene	Trichloroethene			
	Dibromochloromethane	Gasoline Range Organics	5. Field collection procedure, handling and/or	
Methylene chloride 1,1,2,2-Tetrachioroethane	1,1,2-Trichloroethane	Diesel Range Organics Oil Range Organics	preservation of this sample	
Tetrachloroethene	Benzene	* Other	procession of the emplo	
1,1,1-Trichtoroethane		Ania		
1.1.2-Trichloroethane	Trans-1,3-dichloropropene			
	Bromoform	 	6 Made of transportation to lab	
Trichloroethene	4-Methyl-2-pentanone		6. Mode of transportation to lab	
Trichlorofluoromethane	2-Hexanone	+ -		
Vinyt chloride	Tetrachloroethene	+	7 Campia analad hu	
Benzene	Toluene	++	7. Sample sealed by 8. Date sample sealed	
Ethylbenzene	1,1,2,2-Tetrachloroethane	++		
Totuene	Chlorobenzene	++	9. Remarks	
o-Xylene	Ethyl benzene			
m-Xylene	Styrene	 		
p-Xylene	o-Xylene			
	m-Xylene			
	p-Xylene	1 1		